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DATE OF ISSUE
1/06/2004SUPERSEDES
N/A

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms

A

Trade Name & Synonyms
FX-4 AEROSOL

Chemical Family:

HYDROCARBON MIXTURE

Formula Mixture --> X

Manufacturer's Name:

CERTIFIED LABS, DIV. OF NCH CORP.

Address:

BOX 152170
IRVING, TEXAS 75015

Prepared By:

M COHEN/Chemist

Product Code Number
5758Emergency Phone Number
800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)

ETHYL LACTATE
REFINED CANOLA OIL
C16-18 FATTY ACID METHYL ESTERS
PROPANE
N-BUTANE
S AS VEGETABLE OIL MIST

Hazard	TLV	PEL	STEL	CAS #
COMB/IRR	N/E 1.	N/E 2.	N/E	97-64-3
IRRITANT	10MG/M3\$ 1	5 MG/M3\$ 2	N/E	120962-03-0
IRRITANT	N/E 1.	N/E 2.	N/E	67762-38-3
COMB/ASPHY	2500PPM 1.	1000PPM 2.	N/E	74-98-6
COMB/ASPHY	800PPM 1.	N/E 2.	N/E	106-97-8

SECTION III - PHYSICAL DATA

Boiling Point (F):	266°	Specific Gravity (H2O=1):	0.885
Vapor Pressure (MM HG):	1243	Color:	BROWN
Vapor Density (Air=1):	1.7	Odor:	MUSTY SWEET
@ 100% :	N/A	Clarity:	SLIGHT HAZY
% Volatile by Volume:	21.8	Evaporation Rate (BU A/C=1):	12.25
H2O Solubility:	NEGLIGIBLE	Viscosity:	SLIGHT VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point 141°F / T.C.C.	Flammable Limits ETHYL LACTATE	LEL 1.6%	UEL 10.6%		
Extinguishing Media X <--Foam	<--Alcohol Foam	X <--CO2	X <--Dry Chemical	X <--Water Spray	<--Other
Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.					
Unusual Fire and Explosion Hazards: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK. FLAME EXTENSION IS 0 INCHES, BURNBACK IS 0 INCHES.					
Aerosol Level (NFPA 30B): 1					
NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme) 1 <--Health 2 <--Flammability 0 <--Instability <--Special					

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

-Acute (Short Term Exposure)

EYE CONTACT: MAY CAUSE IRRITATION SEEN AS TEARING, STINGING, AND REDNESS.
SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS BURNS, ITCHING, REDNESS, DRYNESS, DEFATTING, OR CRACKING OF THE SKIN.
INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. AT HIGH VAPOR CONCENTRATIONS, MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SEEN AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONSCIOUSNESS, DISORIENTATION, EXCITATION, NAUSEA, VOMITING, PULMONARY IRRITATION, POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION, AND MAY BE FATAL.
TESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING, AND DIARRHEA. INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO IRRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

-Chronic (Long Term Exposure)

CHRONIC SKIN CONTACT MAY PROMOTE DERMATITIS AND OIL ACNE.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS.
TARGET ORGANS: CENTRAL NERVOUS SYSTEM. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT.

Primary Routes of Entry: X <--Inhalation <--Ingestion <--Absorption

SECTION V - HEALTH HAZARD DATA (Continued)

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

-Eye Contact:

RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Skin Contact:

WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:

INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL. DEPENDING ON THE AMOUNT INGESTED AND RETAINED AS WELL AS THE TOXICITY OF THE PRODUCT, GASTRIC LAVAGE SHOULD BE CONSIDERED. KEEP PATIENT'S HEAD BELOW HIPS TO PREVENT PULMONARY ASPIRATION. IF COMATOSE, A CUFFED ENDOTRACHEAL TUBE WILL PREVENT ASPIRATION.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

SQACMD VOC INFORMATION: VOC CONTENT 230.3 G/L. AVERAGE VAPOR PRESSURE OF THE VOC COMPONENTS, 0.8 MMHG @ 20°C. THE VOC COMPONENT IS NOT PHOTOCHEMICALLY REACTIVE.

VOC CONTENT: 27% BY WEIGHT: 30.8% BY VOLUME: 1.9 LBS/GAL

ETHYL LACTATE

ORL-RAT LD50: 8200 MG/KG 3.
SKN-RBT LD50: >5 G/KG 3.
IHL-RAT LC50: >5400 MG/M3 (4 HR) 4.
EYE-RBT SDT: IRRITANT 4.

REFINED CANOLA OIL

NO TOXICITY DATA AVAILABLE

C16-18 FATTY ACID METHYL ESTERS

NO TOXICITY DATA AVAILABLE

PROPANE

NO TOXICITY DATA AVAILABLE

N-BUTANE

IHL-RAT LC50: 658 G/M3/4H 3.
IHL-MUS LC50: 680 G/M3/4H 3.

HUMAN VOLUNTEERS EXPOSED REPEATEDLY TO GASES OF SIMILAR HYDROCARBON MIXTURES RANGING FROM 250 TO 1000 PPM EXHIBITED NO CARDIAC OR PULMONARY FUNCTION ABNORMALITIES. 4.

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable

Conditions to Avoid:

AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE, REDUCING AGENTS SUCH AS SODIUM THIOSULFATE, ACIDS, AND BASES.

Hazardous Decomposition Products:

OXIDES OF CARBON.

Hazardous Polymerization:

<--May Occur X <--Will Not Occur

Conditions to Avoid:

N/A

SECTION VIII - SPILL OR LEAK PROCEDURES.

Steps to be Taken if Material is Released or Spilled:

DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, WEAR APPROPRIATE PROTECTIVE CLOTHING, ELIMINATE ALL SOURCES OF IGNITION, AND VENTILATE THE AREA. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS SPILLS MAY BE SLIPPERY.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

Neutralizing Agent:

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF VAPORS OR MISTS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:

RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT

SECTION IX - SPECIAL PROTECTION INFORMATION (Continued)

LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEPIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL, CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 37-116 OR ANSI Z88.2-1992.

Glove Protection:

WOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

Eye Protection:

SAFETY GLASSES IF THE METHOD OF APPLICATION PRESENTS THE LIKELIHOOD OF EYE CONTACT. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

Other Protection:

WEAR GENERAL-DUTY WORK CLOTHING AND SHOES. REMOVE OIL SOAKED CLOTHING AND SHOES. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Outdoors--> Heated--> Refrigerated--> X
Minimum Temperature: 0°F Maximum Temperature: 100°F

Precautions to be Taken in Handling and Storing:

CONTENTS UNDER PRESSURE. DO NOT USE OR STORE NEAR HEAT, HOT SURFACES, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, OR OPEN FLAME. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER. EXPOSURE TO TEMPERATURES ABOVE 120°F/49°C MAY CAUSE BURSTING. VEHICLE INTERIORS OFTEN EXCEED 120°F/49°C DURING WARM MONTHS. SOME POROUS MATERIALS SUCH AS RAGS, PAPER, ETC. WHEN WETTED WITH THIS PRODUCT MAY UNDERGO SPONTANEOUS COMBUSTION.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

SECTION XI - REGULATORY INFORMATION

Chemical Name
None

CAS Number

Upper & Limit

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.
This MSDS is not intended for users in the state of California.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2003.

2. OSHA PEL.

3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2003.

4. VENDOR'S MSDS.

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

-----IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE,
CORR: CORROSIVE CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, PMCC: PENSKEY-MARTIN CLOSED CUP,
TCC: TAGLIABUE CLOSED CUP,

LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT, NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP: NATIONAL TOXICOLOGY PROGRAM, OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD, MOD: MODERATE, SEV: SEVERE, MUT: MUTAGENIC, ASPHYX: ASPHYXANT, PNOS: PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT: STANDARD DRAIZE TEST, ORL: ORAL, IHL: INHALATION, HMN: HUMAN

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STEAM LEAK

RJP

SOUTH COND,
Pump